

# **Instruction Manual**

## **5014 • 5054**

### **Rotary Hammers**

## Double Insulation

Your unit is Double Insulated to permit use on non-grounded circuits. This means that it is constructed throughout with two separate "layers" of electrical insulation between you and the tool's electrical system.

Tools built with this insulation system are not intended to be grounded. As a result, your tool is equipped with a two prong plug which permits you to use extension cords without concern for maintaining a ground connection.

**NOTE:** DOUBLE INSULATION does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

**CAUTION:** When servicing all tools, **USE ONLY IDENTICAL REPLACEMENT PARTS.** Repair or replace damaged cords.

## Extension Cords

Double insulated tools have 2-wire cords and can be used with 2-wire or 3-wire extension cords. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.) (C.S.A. in Canada). If the extension will be used outside, the cord must be suitable for outdoor use. Any cord marked as outdoor can also be used for indoor work. The letters "WA" on the cord jacket indicate that the cord is suitable for outdoor use.

An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. To determine the minimum wire size required, refer to the following chart.

**CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS**

NAMEPLATE RATING-AMPS	TOTAL EXTENSION CORD LENGTH - FEET											
	25	50	75	100	125	150	175	200				
0 - 10.0	18	18	16	16	14	14	12	12				
10.1 - 13.0	16	16	14	14	14	12	12	12				
13.1 - 15.0	14	14	12	12	12	12	12	—				

Before using an extension cord, inspect it for loose or exposed wires, damaged insulation, and defective fittings. Make any needed repairs or replace the cord if necessary. B&D has extension cords that are suitable for outdoor use and UL listed (CSA in Canada) available at extra cost.

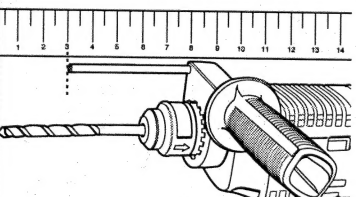
## Side Handle

For operating convenience, the side handle can be rotated to any position around the tool (360°). **NEVER OPERATE TOOL WITHOUT SIDE HANDLE IN PLACE.**

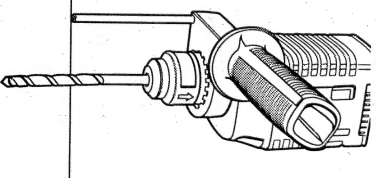
## Depth Rod

To adjust the depth rod, loosen the knob and move rod so that the distance between the end of the rod and the end of the bit equals the desired drilling depth (Figure 1).

**NOTE:** Bit must be fully seated in the hammer when measuring. Figure 2 shows how the depth rod contacts the work surface when the desired hole depth is reached.



**Figure 1**



**Figure 2**

# TOOL OPERATION

## Switch

The motor is operated by a variable speed trigger switch which, when depressed, turns the tool on. The variable speed switch allows slow starting when hammering for exact hole positioning or when working with brittle surfaces such as glazed tile. The further the trigger is depressed, the higher the R.P.M. (Revolutions Per Minute) and B.P.M. (Beats Per Minute). Releasing the trigger turns the tool off.

## Changing Bits

Your tool is designed for the B&D SDS bit system in sizes from 3/16" to 3/4" diameter. To change a bit:

1. Unplug the unit from power source.
2. Insert the bit with a slight twist. The locking takes place automatically during drilling/hammer drilling.
3. To release bit, pull front end of chuck (Figure 3) and pull bit out.

Figure 3

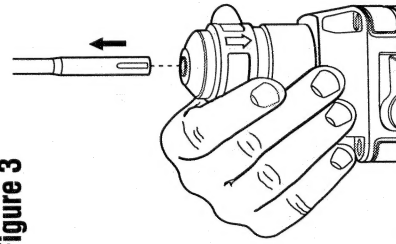


Figure 4  
(5054)

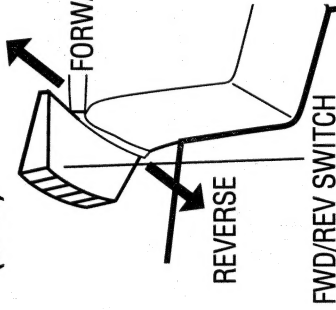
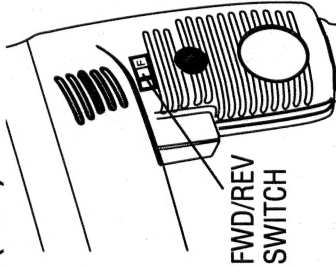


Figure 5  
(5014)



## Reversing Switch

The hammer is equipped with a reversing switch for backing out jammed drill bits or large screws.

**5054 ONLY.** To operate the hammer in reverse, slide the lever shown in Figure 4 to the left (when viewed from the chuck end). To operate in forward, slide the lever to the right as shown.

**5014 ONLY.** To operate the hammer in reverse, slide the button shown in Figure 5 to the right. To operate in forward, slide the button to the left as shown.

Always be sure that the tool is off and has stopped coasting before changing its direction.

## Hammer/Drill Selector Lever (Figure 6)

Your hammer is equipped with a selector lever to control drilling or hammering action.

1. Turn the tool off and allow it to stop before shifting.
2. To select "hammer drilling", rotate the selector lever counterclockwise to the hammer/drill symbol.
3. To select "drilling", rotate the selector lever to the drill position.

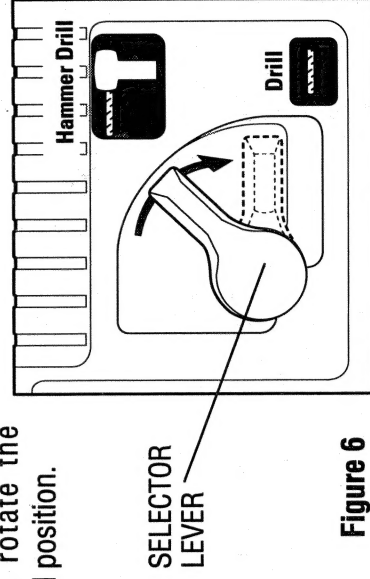


Figure 6



## Hammer Drilling

1. Position selector switch in the "hammer/drill" position.
2. When drilling, use just enough force on the hammer to keep it from bouncing excessively or "rising" off the bit. Too much force will cause slower drilling speeds, overheating, and a lower drilling rate.
3. Drill straight, keeping the bit at a right angle to the work. Do not exert side pressure on the bit when drilling as this will cause clogging of the bit flutes and a slower drilling speed.
4. When drilling deep holes, if the hammer speed starts to drop off, pull the bit partially out of the hole with the tool still running to help clear debris from the hole.
5. Do not pour water into the hole to settle dust. Water causes clogging of bit flutes which will tend to make the bit bind in the hole.

## Drilling

Always unplug the tool when attaching or changing bits or accessories.

1. Use sharp drill bits only. For **WOOD**, use twist drill bits, spade bits, power auger bits, or hole saws. For **METAL**, use high speed steel twist bits or hole saws.
2. Be sure the material to be drilled is anchored or clamped firmly. If drilling thin material, use a "back-up" block to prevent damage to the material.
3. Always apply pressure in a straight line with the bit. Use enough pressure to keep the bit biting, but do not push hard enough to stall the motor or deflect the bit.
4. Hold tool firmly to control the twisting action.
5. **IF TOOL STALLS**, it is usually because it is being overloaded. **RELEASE TRIGGER IMMEDIATELY**, remove bit from work, and determine cause of stalling. Do not click trigger off and on in an attempt to start a stalled tool. This can damage the tool.

6. To minimize stalling on breaking through the material, reduce pressure on hammer and ease the bit through the last fractional part of the hole.
7. Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.
8. With the variable speed feature there is no need to center punch the point to be drilled. Use a slow speed to start the hole and accelerate by squeezing the trigger harder when the hole is deep enough to drill without the bit skipping out.

## Maintenance

Disconnect tool from the power supply and periodically take the following maintenance action.

1. Clean any dirt build-up out of the air slots in the housing.
2. Check the condition of the power supply cord, plug and extension cord. Repair at once if damaged.
3. Your hammer has a maintenance feature called the "B&D check point system." When the tool requires motor brush replacement, it will shut down automatically. At this time the tool should be taken to a B&D service center for cleaning, regreasing, and preventative maintenance.

## Accessories

Recommended accessories for use with your tool are available at extra cost from your distributor or local service center. A complete listing of service centers is included with your tool.

**CAUTION:** The use of any non-recommended accessory may be hazardous. If you need any assistance in locating any accessory call 1-800-9-BD TOOL (1-800-923-8665) or contact Black & Decker (U.S.) Inc., Consumer Services Department, P.O. Box 618, 626 Hanover Pike, Hampstead, MD 21074.



## IMPORTANT!

To assure product safety and reliability, particularly for Double Insulated tools, repairs, maintenance and adjustment (excluding maintenance described in this manual) should be performed by B&D service centers or authorized service centers, always using identical B&D replacement parts.

Every B&D tool is of the highest quality.

If you wish to contact us regarding this product, please call toll free between 8:00am and 8:00pm ET, seven days a week:

**1-800-9-BD TOOL**

(1-800-923-8665)

## One Year Service/Safety Check

All B&D tools for Industry and Construction are covered under a service/safety check program where B&D will inspect your tool for safety and provide necessary maintenance or repairs, including normal wear and tear parts, for one year, FREE OF CHARGE.

## Full Warranty

All B&D tools for Industry and Construction are warranted to be free of any defects in materials or workmanship. Upon thorough examination of tool, B&D will repair or replace, at our option, any product that is determined to be defective.

## Conditions

The service/safety check and the warranty do not apply to: repairs made or attempted by anyone other than an authorized B&D service location; misuse, abuse, neglect, improper application of the tool; missing parts; or normal wear and tear (after first year of ownership). Please return the complete unit, transportation prepaid, to any B&D factory owned or B&D authorized service center location (list provided with tool or see Yellow Pages under "Tools Electric").

These symbols on the nameplate mean the product is listed by Underwriter's Laboratories, Inc. and certified by the Canadian Standards Association.



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